

S
14.GS:
CIR 123
c. 2

Geol Survey

State of Illinois
Dwight H. Green, Governor
Department of Registration and Education
Frank G. Thompson, Director

Division of the
STATE GEOLOGICAL SURVEY
M. M. Leighton, Chief
Urbana, Illinois

ILLINOIS GEOLOGICAL
SURVEY LIBRARY
APR 16 1946

No. 123

CIRCULAR

July 1946

AGSTONE USED IN ILLINOIS IN 1945

By

Walter H. Voskuil and Douglas F. Stevens

ILLINOIS STATE GEOLOGICAL SURVEY



3 3051 00004 6718

PRELIMINARY REPORT

AGSTONE USED IN ILLINOIS IN 1945

Reports of producers to the Illinois State Geological Survey show that the amount of agstone (ground limestone, dolomite, and marl) used for soil improvement in Illinois during 1945 amounted to more than 4,220,000 tons. This was about 10,000 tons more than that used in 1944 and establishes again a new all-time high record.

Table 1. - Agstone Used in Illinois, 1944 and 1945*

	1944		1945	
	Tons	Value	Tons	Value
Produced in Illinois:				
Limestone	2,500,261	\$2,709,514	2,311,000	\$2,622,200
Dolomite	1,561,956	1,546,597	1,915,400	1,952,800
Marl	10,832	10,596	7,500	7,400
Total produced in Illinois	4,073,049	4,266,707	4,233,900	4,582,400
Less marketed in other states	173,211	181,500	190,200	197,500
Produced and used in Illinois	3,899,838	4,085,207	4,043,700	4,384,900
Produced in other states and used in Illinois	314,762	303,679	181,200	168,400
Total agstone used in Illinois	4,214,600	\$4,388,886	4,224,900	\$4,553,300

* From canvass made by Illinois Geological Survey, in cooperation with Illinois Agricultural Association and Midwest Agricultural Limestone Institute.

This large production of agstone, exceeding slightly the record made in 1944, was accomplished by the industry in spite of many serious difficulties. The last three months of 1945 brought the end of actual hostilities after nearly four years of war, but the stone industry found that labor was very scarce and that it was almost impossible to obtain repairs for badly worn machinery and equipment.

The value of agstone for improving soil fertility is so firmly established that the demand for this product has caused the Illinois stone industry to produce an enormous tonnage. This is shown in Table 1 by the increased amount marketed in other states at the same time that the amount produced in other states and used in Illinois decreased about 42 percent.

The progressive increase of the use of agstone on Illinois farms during the years for which figures are available is shown in Table 2.

Table 2. - Agstone Used in Illinois Annually, 1927-1945*

Year	Tons	Value	Av.	Year	Tons	Value	Av.
1927	647,155	\$579,639	\$0.90	1937	1,310,513	\$1,279,981	\$0.97
1928	565,001	511,005	.91	1938	1,251,263	1,247,150	1.00
1929	947,798	843,693	.89	1939	1,497,458	1,318,173	.88
1930	868,426	740,785	.86	1940	2,365,663	1,999,850	.84
1931	268,874	241,376	.90	1941	3,084,855	2,873,536	.93
1932	164,933	140,969	.86	1942	3,866,568	3,600,313	.93
1933	227,466	165,667	.73	1943	3,221,477	3,152,608	.98
1934	491,644	319,604	.65	1944	4,214,600	4,388,886	1.04
1935	379,555	268,139	.71	1945	4,224,900	4,553,300	1.08
1936	1,114,466	871,862	.78				

* U. S. Bureau of Mines, 1927-29; canvass by Illinois Agricultural Association, 1930; canvass by Illinois Geological Survey, 1931-45.

During 1945, agstone was produced in 44 of the 102 counties of the State. Of the total amount used during the year, 95.7 percent was produced in Illinois.

Table 3 gives the use of agstone by counties in Illinois during 1945, showing the amounts produced in Illinois and in other states. It also shows the arable land and plowable pasture in each county and the average quantity of agstone used, in pounds per acre of such land in each county. These data are from producers who reported sales of agstone in specific counties, or are estimates by county farm advisers, whichever is the larger. Production not accounted for in the county totals is given at the bottom of the table marked, "counties not specified." The total amount used in Illinois is the actual total of deliveries in Illinois reported by producers.

Table 3. - Agstone Used in Illinois, by Counties, 1944 and 1945*

County	Total used in 1944 (Tons)	Tons used in 1945			Acres of arable land and plowable pasture (1940 Census)	Av. No. of pounds per acre ^{a/}	
		Produced in Illinois	Produced in other states	Total used in Illinois		1944	1945
Adams	49,000	50,000		50,000	328,009	299	305
Alexander	9,200	3,200		3,200	58,779	313	108
Bond	40,000	33,800	1,200	35,000	168,876	474	414
Boone	15,700	16,900		16,900	139,691	225	241
Brown	10,000	12,000		12,000	119,648	168	200
Bureau	101,300	100,000		100,000	440,808	460	454
Calhoun	16,000	18,000		18,000	70,886	456	507
Carroll	33,000	36,000		36,000	200,264	330	360
Cass	25,000	30,000		30,000	157,002	319	382
Champaign	30,000	80,000		80,000	560,583	107	285
Christian	51,700	75,000		75,000	373,342	277	402
Clark	40,300	58,500		58,500	217,376	372	539
Clay	30,100	21,600	3,000	24,600	201,735	299	243
Clinton	37,000	35,200	2,200	37,400	210,349	352	356
Coles	30,000	40,000		40,000	254,255	236	315
Cook	46,400	21,400	3,600	25,000	199,206	466	251
Crawford	30,000	30,000		30,000	193,868	310	309
Cumberland	30,000	25,000		25,000	157,832	373	316
DeKalb	50,000	75,000		75,000	349,131	286	429
DeWitt	4,500	13,200		13,200	211,909	43	124
Douglas	4,000	20,000		20,000	231,817	35	172
DuPage	26,100	46,600		46,600	116,731	450	796
Edgar	30,000	30,000		30,000	307,538	195	195
Edwards	16,900	11,300	2,100	13,400	108,888	310	247
Effingham	39,500	37,700	300	38,000	213,369	371	309
Fayette	20,500	27,000	200	27,200	275,732	149	109
Ford	20,000	22,000	3,000	25,000	280,058	143	178
Franklin	17,200	24,800	4,300	29,100	146,843	235	395
Fulton	11,000	39,000	1,000	40,000	338,466	65	236
Gallatin	30,000	20,000		20,000	127,951	470	312
Greene	17,700	17,700		17,700	226,052	157	157
Grundy	18,000	20,000		20,000	118,241	165	183
Hamilton	15,700	10,400	4,300	14,700	179,698	175	135
Hancock	47,000	21,400	400	21,800	340,637	276	128
Hardin	31,300	13,600		13,600	50,649	1,240	533

Table 3. - Agstone Used in Illinois, by Counties, 1944 and 1945 *

County	Total used in 1944 (Tons)	Tons used in 1945			Acres of arable land and plowable pasture (1940 Census)	Av. No. of pounds per acre ^{a/}	
		Produced in Illinois	Produced in other states	Total used in Illinois		1944	1945
Henderson	55,400	41,400		41,400	156,071	716	531
Henry	90,000	85,200	4,800	90,000	423,236	425	425
Iroquois	60,000	64,500	500	65,000	611,482	197	213
Jackson	21,100	16,100	200	16,300	188,088	224	173
Jasper	50,300	37,800		37,800	240,290	420	315
Jefferson	72,000	28,100	17,900	46,000	242,802	593	379
Jersey	17,500	35,000		35,000	134,766	260	518
Jo Daviess	30,000	24,500	500	25,000	225,208	267	223
Johnson	9,000	14,000		14,000	112,452	161	250
Kane	71,000	60,100		60,100	255,882	556	469
Kankakee	64,000	77,000		77,000	348,647	367	441
Kendall	30,000	25,000		25,000	168,326	357	298
Knox	57,200	52,800	12,700	65,500	317,827	359	412
Lake	9,600	12,000		12,000	140,960	128	170
LaSalle	125,000	128,000		128,000	585,735	426	437
Lawrence	15,600	9,500	1,000	10,500	165,983	188	126
Lee	125,000	130,700		130,700	385,196	648	680
Livingston	87,700	196,900		196,900	595,765	294	661
Logan	79,700	46,300		46,300	346,615	459	267
McDonough	30,000	25,000		25,000	270,917	222	185
McHenry	40,200	39,900		39,900	262,434	306	305
McLean	75,000	110,000		110,000	656,782	228	335
Macon	33,800	26,900	100	27,000	305,531	222	176
Macoupin	16,800	28,600	1,000	29,600	342,781	98	172
Madison	40,000	36,300	2,700	39,000	307,651	261	253
Marion	37,600	25,000	11,900	36,900	239,131	314	309
Marshall	10,600	36,700		36,700	189,489	112	384
Mason	33,000	38,800		38,800	248,797	266	312
Massac	11,000	12,100		12,100	89,357	247	272
Menard	21,400	20,000		20,000	154,392	278	259
Mercer	20,000	19,400	600	20,000	251,449	159	159
Monroe	39,400	40,000		40,000	155,971	506	513
Montgomery	36,700	70,300	400	70,700	322,306	228	437
Morgan	20,000	35,200		35,200	261,346	156	266
Moultrie	16,800	24,000		24,000	178,794	188	268

Table 3. - Agstone Used in Illinois, by Counties, 1944 and 1945*

County	Total used in 1944 (Tons)	Tons used in 1945			Acres of arable land and plowable pasture (1940 Census)	Av. No. of pounds per acre ^{a/}	
		Produced in Illinois	Produced in other states	Total used in Illinois		1944	1945
Ogle	60,000	73,700		73,700	383,404	314	385
Peoria	75,000	74,500	500	75,000	243,380	616	616
Perry	16,800	14,200	8,700	22,900	156,265	215	293
Piatt	20,000	45,000		45,000	246,223	163	366
Pike	40,000	40,000		40,000	341,756	235	235
Pope	6,500	5,000		5,000	92,321	141	108
Pulaski	12,500	5,100		5,100	68,920	363	148
Putnam	11,800	20,100		20,100	66,867	354	600
Randolph	50,000	50,700	4,300	55,000	227,475	440	484
Richland	24,400	17,500	2,500	20,000	186,383	262	215
Rock Island	75,000	39,500	500	40,000	156,111	960	512
St. Clair	78,400	74,900	100	75,000	258,552	582	579
Saline	23,700	17,000	2,300	19,300	145,818	326	264
Sangamon	60,500	64,900	100	65,000	425,644	284	305
Schuyler	2,500	7,300	100	7,400	144,306	35	103
Scott	15,000	21,000		21,000	103,624	290	404
Shelby	36,500	46,000	100	46,100	374,712	196	246
Stark	12,800	26,000	2,900	28,900	148,213	173	391
Stephenson	50,000	75,400		75,400	283,408	353	533
Tazewell	30,000	40,000		40,000	304,959	197	262
Union	24,700	20,800		20,800	123,799	399	335
Vermilion	50,000	70,000		70,000	451,146	222	310
Wabash	10,000	4,800	11,800	16,600	103,459	193	322
Warren	75,000	60,000		60,000	271,171	553	442
Washington	55,000	4,400	15,800	20,200	242,105	455	166
Wayne	60,000	14,200	30,100	44,300	330,724	363	267
White	55,400	37,400	17,600	55,000	240,726	460	458
Whiteside	85,000	100,000		100,000	350,544	484	569
Will	39,100	47,500		47,500	396,213	197	239
Williamson	25,000	15,300		15,300	128,514	389	237
Winnebago	25,000	30,000		30,000	219,494	228	274
Woodford	21,200	29,400		29,400	258,560	164	227
County not specified	411,300	42,700	3,900	46,600	--	-	-
Total	4,214,600	4,043,700	181,200	4,224,900	25,133,474	336 (Av.)	336 (Av.)

* Compiled from canvass made by Illinois Geological Survey, in cooperation with Illinois Agricultural Association and Midwest Agricultural Limestone Institute.

^{a/} Calculated from columns 5 and 6.

Table 4 gives the total amount of agstone produced in other states but marketed in Illinois. Table 5 gives the total amount produced in Illinois which was marketed in other states.

The map shows the average amount of agstone used in each county in pounds per acre of arable land and plowable pasture. In previous reports the averages have been based on acres of arable land, but in this report plowable pasture land is also included in order to give a broader basis of comparative use for agstone in the various counties.

Table 4. - Agstone Produced in Other States
and Used in Illinois, 1940-1945*
(In tons)

Year	Amount sold in Illinois	Percent of total Illinois consumption
1940	106,912	5.9
1941	95,226	3.2
1942	171,035	4.5
1943	166,518	5.3
1944	314,800	7.5
1945	181,200	4.3

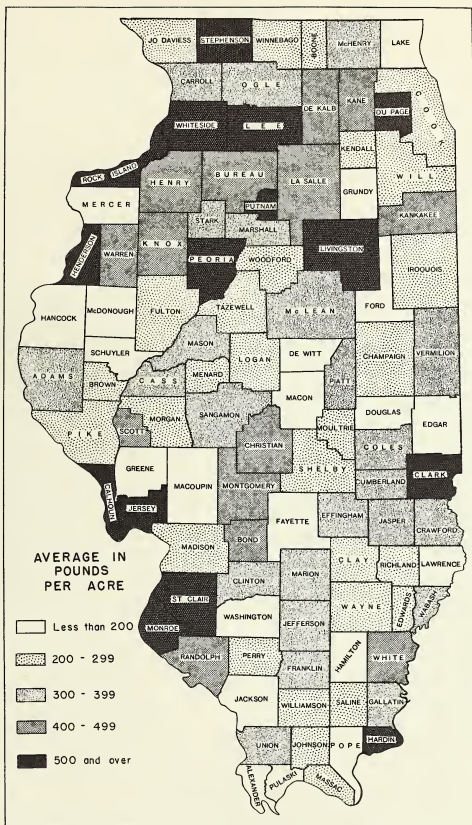
* From canvass made by Illinois Geological Survey.

Table 5. - Agstone Produced in Illinois and
Marketed in Other States, 1940-1945*
(In tons)

Year	Wisconsin	Iowa	Missouri	Kentucky	Indiana	Other states ^o	Total
1940	950	---	353	5,450	3,800	15,225	25,778
1941	---	100	867	940	1,800	1,125	4,832
1942	450	---	203	9,700	28,811	19,853	59,017
1943	---	11,000	1,192	1,000	34,579	28,200	75,971
1944	---	7,683	8	8,900	46,302	110,318	173,211
1945	---	---	2,700	23,600	46,000	117,900	190,200


* From canvass made by Illinois Geological Survey.

^o Marketed outside Illinois, destination seldom specified.



AGSTONE IN ILLINOIS IN 1945

County averages in pounds per acre of
arable land and plowable pasture



Digitized by the Internet Archive
in 2012 with funding from
University of Illinois Urbana-Champaign

<http://archive.org/details/agstoneusedinill123vosk>

